

Figure 1 (A)

GGATCGTCTCAGGTCAGCGGAGGGA 25
 SL33
GGAGACTTATAGACCTATCCAGTCT 50
 TCAAGGTGCTCCAGAAAGCAGGAGT 75
 TGAAGACCTGGGTGTGAGGGACACA 100
 TACATCCTAAAAGCACCACAGCAGA 125
 GGAGGCCCCAGGCAGTGCCAGGAGTC 150
 AAGGTTCCCAGAAGACAAACCCCCT 175
 AGGAAGACAGGCGACCTGTGAGGCC 200
CTAGAGCACCACTTAAGAGAAGAA 225
 SL34
 GAGCTGTAAGCCGGCCTTTGTCAGA 250
 GCCATCATGGGGGACAAGGATATGC 275
 CTA CTGCTGGGATGCCGAGTCTTCT 300
 CCAGAGTTCCTCTGAGAGTCCTCAG 325
 AGTTGTCTCTGAGGGGGAGGACTCCC 350
 AGTCTCCTCTCCAGATTCCCCAGAG 375
 TTCTCCTGAGAGCGACGACACCCTG 400
 TATCCTCTCCAGAGTCCTCAGAGTC 425
 GTTCTGAGGGGGAGGACTCCTCGGA 450
 TCCTCTCCAGAGACCTCCTGAGGGG 475
 AAGGACTCCCAGTCTCCTCTCCAGA 500
 TTCCCCAGAGTTCTCCTGAGGGCGA 525
 CGACACCCAGTCTCCTCTCCAGAAT 550
 TCTCAGAGTTCTCCTGAGGGGAAGG 575
 ACTCCCTGTCTCCTCTAGAGATTTC 600
 TCAGAGCCCTCCTGAGGGTGAGGAT 625
 GTCCAGTCTCCTCTGCAGAATCCTG 650
 CGAGTTCCTTCTTCTCCTCTGCTTT 675
 ATTGAGTATTTTCAGAGTCCCCT 700

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Figure 1(B)

GAGAGAACTCAGAGTACTTTTGAGG	725
GTTTTCCCCAGTCTCCTCTCCAGAT	750
TCCTGTGAGCTCCTCCTCCTCCTCC	775
ACTTTATTGAGTCTTTTCCAGAGTT	800
CCCCTGAGAGAACTCAGAGTACTTT	825
TGAGGGTTTTTCCCCAGTCTCTTCTC	850
CAGATTCCTATGACCTCCTCCTTCT	875
CCTCTACTTTATTGAGTATTTTCCA	900
GAGTTCTCCTGAGAGTGCTCAAAGT	925
ACTTTTGAGGGTTTTTCCCCAGTCTC	950
CTCTCCAGATTCCTGGGAGCCCCTC	975
CTTCTCCTCCACTTTACTGAGTCTT	1000
TTCCAGAGTTCCCCTGAGAGAACTC	1025
ACAGTACTTTTGAGGGTTTTTCCCCA	1050
GTCTCCTCTCCAGATTCCTATGACC	1075
TCCTCCTTCTCCTCTACTTTATTGA	1100
GTATTTTCCAGAGTTCTCCTGAGAG	1125
TGCTCAAAGTACTTTTGAGGGTTTT	1150
CCCCAGTCTCCTCTCCAGATTCCTG	1175
GGAGCCCCTCCTTCTCCTCCACTTT	1200
ACTGAGTCTTTTCCAGAGTTCCCCT	1225
GAGAGAACTCACAGTACTTTTGAGG	1250
GTTTTCCCCAGTCTCCTCTCCAGAT	1275
TCCTATGACCTCCTCCTTCTCCTCT	1300
ACTTTATTGAGTATTTTACAGAGTT	1325
CTCCTGAGAGTGCTCAAAGTGCTTT	1350
TGAGGGTTTTTCCCCAGTCTCCTCTC	1375
CAGATTCCTGTGAGCTCCTCTTTCT	1400

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Figure 1 (C)

CCTACACTTTATTGAGTCTTTTCCA	1425
GAGTTCCCCTGAGAGAACTCAGAGT	1450
ACTTTTGAGGGTTTTCCCCAGTCTC	1475
CTCTCCAGATTCCTGTGAGCTCCTC	1500
CTCCTCCTCCTCCACTTTATTGAGT	1525
CTTTTCCAGAGTTCCCCTGAGTGTA	1550
CTCAAAGTACTTTTGAGGGTTTTCC	1575
CCAGTCTCCTCTCCAGATTCCTCAG	1600
AGTCCTCCTGAAGGGGAGAATACCC	1625
ATTCTCCTCTCCAGATTGTTCCAAG	1650
TCTTCCTGAGTGGGAGGACTCCCTG	1675
TCTCCTCACTACTTTCCTCAGAGCC	1700
CTCCTCAGGGGGAGGACTCCCTATC	1725
TCCTCACTACTTTCCTCAGAGCCCT	1750
CCTCAGGGGGAGGACTCCCTGTCTC	1775
CTCACTACTTTCCTCAGAGCCCTCA	1800
GGGGGAGGACTCCCTGTCTCCTCAC	1825
TACTTTCCTCAGAGCCCTCCTCAGG	1850
GGGAGGACTCCATGTCTCCTCTCTA	1875
CTTTCCTCAGAGTCCTCTTCAGGGG	1900
GAGGAATTCCAGTCTTCTCTCCAGA	1925
GCCCTGTGAGCATCTGCTCCTCCTC	1950
CACTCCATCCAGTCTTCCCCAGAGT	1975
TTCCCTGAGAGTTCTCAGAGTCCTC	2000
CTGAGGGGCCTGTCCAGTCTCCTCT	2025
CCATAGTCCTCAGAGCCCTCCTGAG	2050
GGGATGCACTCCCAATCTCCTCTCC	2075
AGAGTCCTGAGAGTGCTCCTGAGGG	2100

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Figure 1 (D)

GGAGGATTCCCTGTCTCCTCTCCAA 2125
 ATTCCTCAGAGTCCTCTTGAGGGAG 2150
 AGGACTCCCTGTCTTCTCTCCATTT 2175
 TCCTCAGAGTCCTCCTGAGTGGGAG 2200
 GACTCCCTCTCTCCTCTCCACTTTC 2225
 CTCAGTTTCCTCCTCAGGGGGAGGA 2250
 CTTCCAGTCTTCTCTCCAGAGTCCT 2275
 GTGAGTATCTGCTCCTCCTCCACTT 2300
 CTTTGAGTCTTCCCCAGAGTTTCCC 2325
 TGAGAGTCCTCAGAGTCCTCCTGAG 2350
 GGGCCTGCTCAGTCTCCTCTCCAGA 2375
 GACCTGTCAGCTCCTTCTTCTCCTA 2400
 CACTTTAGCGAGTCTTCTCCAAAGT 2425
 TCCCATGAGAGTCCTCAGAGTCCTC 2450
 CTGAGGGGCCTGCCCAGTCTCCTCT 2475
 CCAGAGTCCTGTGAGCTCCTTCCCC 2500
 TCCTCCACTTCATCGAGTCTTTCCC 2525
 AGAGTTCTCCTGTGAGCTCCTTCCC 2550
 CTCCTCCACTTCATCGAGTCTTTCC 2575
 AAGAGTTCCCCTGAGAGTCCTCTCC 2600
 AGAGTCCTGTGATCTCCTTCTCCTC 2625
 CTCCACTTCATTGAGCCCATTAGT 2650
 GAAGAGTCCAGCAGCCCAGTAGATG 2675

SL26

AATATACAAGTTCCTCAGACACCTT 2700
 GCTAGAGAGTGATTCCTTGACAGAC 2725
 AGCGAGTCCTTGATAGAGAGCGAGC 2750
 CCTTGTTCACTTATACTGGATGA 2775
 AAAGGTGGACGAGTTGGCGCGGTTT 2800

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Figure 1(E)

CTTCTCCTCAAATATCAAGTGAAGC	2825
SL27	
AGCCTATCACAAAGGCAGAGATGCT	2850
GACGAATGTCATCAGCAGGTACACG	2875
GGCTACTTTCCTGTGATCTTCAGGA	2900
AAGCCCGTGAGTTCATAGAGATACT	2925
TTTTGGCATTTCCTTGAGAGAAGTG	2950
GACCCTGATGACTCCTATGTCTTTG	2975
TAAACACATTAGACCTCACCTCTGA	3000
GGGGTGTCTGAGTGATGAGCAGGGC	3025
ATGTCCCAGAACCGCCTCCTGATTC	3050
TTATTCTGAGTATCATCTTCATAAA	3075
GGGCACCTATGCCTCTGAGGAGGTC	3100
ATCTGGGATGTGCTGAGTGGAATAG	3125
GGGTGCGTGCTGGGAGGGAGCACTT	3150
TGCCTTTGGGGAGCCCAGGGAGCTC	3175
CTCACTAAAGTTTGGGTGCAGGAAC	3200
ATTACCTAGAGTACCGGGAGGTGCC	3225
CAACTCTTCTCCTCCTCGTTACGAA	3250
TTCTGTGGGGTCCAAGAGCTCATT	3275
CAGAAGTCATTAAGAGGAAAGTAGT	3300
AGAGTTTTTGGCCATGCTAAAGAAT	3325
ACCGTCCCTATTACCTTTCCATCCT	3350
CTTACAAGGATGCTTTGAAAGATGT	3375
GGAAGAGAGAGCCCAGGCCATAATT	3400
GACACCACAGATGATTCGACTGCCA	3425
CAGAAAGTGCAAGCTCCAGTGTCAT	3450
GTCCCCCAGCTTCTCTTCTGAGTGA	3475
AGTCTAGGGCAGATTCTTCCCTCTG	3500

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Figure 1(F)

AGTTTGAAGGGGGCAGTCGAGTTTC	3525
TACGTGGTGGAGGGCCTGGTTGAGG	3550
CTGGAGAGAACACAGTGCTATTTGC	3575
ATTTCTGTTCCATATGGGTAGTTAT	3600
GGGGTTTACCTGTTTTACTTTTGGG	3625
TATTTTTCAAATGCTTTTCCTATTA	3650
ATAACAGGTTTAAATAGCTTCAGAA	3675
TCCTAGTTTATGCACATGAGTCGCA	3700
CATGTATTGCTGTTTTTCTGGTTTA	3725
AGAGTAACAGTTTGATATTTTGTA	3750
AAACAAAAACACACCCAAACACACC	3775
ACATTGGGAAACCTTCTGCCTCAT	3800
TTTGTGATGTGTCACAGGTTAATGT	3825
GGTGTTACTGTAGGAATTTTCTTGA	3850
AACGTGAAGGAACCTCTGCAGTTAA	3875
ATAGTGGAATAAAGTAAAGGATTGT	3900
TAATGTTTGCATTTTCCTCAGGTCCT	3925
TTAGTCTGTTGTTCTTGAAAATAA	3950
AGATACATACCTGGTTTGCTTGGCT	3975
TACGTAAGAAAGTAGAAGAAAGTAA	4000
ACTGTAATAAATAAAAAAAAAAAAAA	4025
AAAAAA	4031

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FIG. 2(A)

[exon I] CCAATTCTGAGGACGGCGTA GAGTTCGGCCGAAGGAACCT GACCCAGGCTCTGTGAGGAG GCAAGGlgag//.....GGATCGT CTCAGGTCAGCGGAGGAGG 27
 [exon I] intron I
 //cig gagciccaggaaccaggcag lgaggccllgg//.....c lgagacaglatcctcagglc 115
 [exon II] intron II
 GTGCTCCAGAAAGCAGGAGT TGAAGACCTGGGTGTGAGGG ACACATACATCCTAAAGCA 115
 AGACTTATAGACCTATCCAG TCTTCAAGlg//..... [exon II] intron II
 gcccigaaigca caccaggggccccaccclgcc acaggacacalaggacacca
 acagagcagaggagcacag ggiglgccagcaglgaaigt//..... gcccigaaigca caccaggggccccaccclgcc gaaacaglgcagaccclggc
 CCACAGCAGAGGAGGCCCGAG GCAGTGGCAGGAGTCAAGgt gaglgcacgaccigaciglg taccaaggccglaccccc gaaacaglgcagaccclggc
 [exon III] intron III
 cagaglcggccclaccclcc ctaciglcaglcclglagaa legac-clciglcggccggc lglaaccclga-glaccclcl cactlccclclcagGTTTT 70
 agaccggccclglagccac ccaciglccllccclggcgc lcalggclcclggccagc lglgccccgagglgccllcl cgcglcclclacagGTTCC 158
 [exon III] intron III
 cagaglcggccclaccclcc ctaciglcaglcclglagaa legac-clciglcggccggc lglaaccclga-glaccclcl cactlccclclcagGTTTT 70
 agaccggccclglagccac ccaciglccllccclggcgc lcalggclcclggccagc lglgccccgagglgccllcl cgcglcclclacagGTTCC 158
 CAGGGACAGGCCAACCCAG AGGACAGGATTCCCTGGAGG CCACAGAGGAGCAC----A AGGAGAAGATCTglaagtag gcclllgllagaglcclcaa 258
 CAGAAGACAAACCCCTAGG AAGACAGGGCAGCTGTGAGG CCCTAGAGCACCACTTAAG AGAAGAAGAGCTGTAAGCCG GCCTTTGTCTCAGAGGCCATCAT M 1
 intron III [exon III]
 gllcag-ltclcagclgag gccclcacaacacclccclcl clccc-cagGCTGTGGGTC TTCATTG-CCCAGCTCCTGC CCACACTCCTGCCCTGCTGCC 188
 Ggllgaglltclcagclgag gccacigggacclgclccclcl clccc-cagGCTGTGGGTC TTCATTG-CCCAGCTCCTGC CCACACTCCTGCCCTGCTGCC 188
 on III [exon III]
 M S L E Q R S L H C K P E E A L E A Q Q E A L G L V C V 28
 1 CT-GACGAGAGTCATCATG TCTCTTGACGAGGAGTCT GCACCTGCAAGCCTGAGGAAG CCCTTGAGGGCCCAACAAGAG GCCCTGGGCTGGTGTGTGT 286
 1 cclgaacaatalcalcalg cclclcllclaaaccllcc acgccccagcllgagcaag gccllccagaaggcaalllc ataciggaagllgglagalc
 O A T S S S S P L V L G T L E E V P T A G S T D P P Q S P Q G A 61
 1 GCAGGCTGCCACCTCTCCT CCTCTCTCTGTCTGTGGGC ACCCTGGAGGAGGTGCCAC TGCTGGGTCAACAGATCCTC CCCAGAGTCTCAGGGAGCC 386
 1 agaggalccccc.....
 76
 S A F P T T I N F T R Q R Q P 431
 TCCGCCCTTCCCACTACCAT CAACTTCACTCGACAGAGGC AACCC.....galgaggagaggag gaagcllccclccalllclc llcclcllccacclllal
 431

FIG. 2(B)

.....
 TTCCAGAGTCCCGTGA GAAGTCAGAGAACTTCTGAG GGGTTTGCACAGCTCCTCT CCAGATTCCGTGAGTCCT CCTCGTCTCCACTTACTG 99
 F O S S P E R S Q | R T S E G F A Q S P L Q I P | V S S S S S S T L L L 24

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A1
C1 AGTCTTTCCAGATCCCC TGAGAGAACTCAGAGTACT TTGAGGGTTTCCCCAGTCT CCACTCCAGATTCCTGTGAG CCGCTCCTTCCTCCACTT 1094
S L F Q S S P E R T O S T F E G F P Q S P L Q I P V S R S F S S T L 280

A1
C1 TATTGAGTATTTCCAGAGT TCCCCTGAGAGAACTCAGAG TACTTTTGGGGTTTGGCCC AGTCTCCTCCTCCAGATTCCT GTGAGCTCCTCCTCCTCC 1194
L S I F O S S P E R T O S T F E G F A Q S P L Q I P V S S S S S S 313

A1
C1 CACTTATTGAGTCTTTCC AGAGTCCCCCTGAGAGAACT CAGAGTACTTTTGGGGTTT TCCCAGTCTCTCCTCCAGA TTCCTATGACCCTCCTCCT 1294
T L L S L F Q S S P E R T Q S T F E G F P Q S L L Q I P M T S S F 346

A1
C1 TCCCTACTTTTATGAGTAT TTCCAGAGTCTCCTGAGA GGTCTCAAGTACTTTTGGAG GGTTCCTCCAGTCTCCTCT CCAGATTCCTGGGAGCCCC 1394
S S T L L S I F Q S S P E S A Q S T F E G F P Q S P L Q I P G S P S 380

A1
C1 CCTCTCCTCCTTACTG AGTCTTTCCAGAGTCCCC TGAGAGAACTCAGAGTACT TTGAGGGTTTCCCCAGTCT CCTCTCCAGATTCCTTAIGAC 1494
F S S T L L S L F Q S S P E R T H S T F E G F P Q S P L Q I P M T 413

A1
C1 CTCCTCCTCCTCCTACTT TATTGAGTATTTACAGAGT TCTCCTGAGAGTCTCAAAG TGCTTTTGGGGTTTCCCC AGTCTCCTCCTCCAGATTCCT 1594
S S F S S T L L S I L Q S S P E S A Q S A F E G F P Q S P L Q I P 446

A1
C1 GTGAGCTCCTCTTCTCCTA CACTTATTGAGTCTTTCC AGAGTCCCCCTGAGAGAACT CAGAGTACTTTTGGGGTTT TCCCAGTCTCCTCCTCCAGA 1694
V S S S F S Y T L L S L F O S S P E R T Q S T F E G F P Q S P L O I 480

A1
C1 TCCCTGAGGCTCCTCCTCC TCCCTCCTCCTTATTGAG TCTTCCAGAGTCCCCCTG AGTGTACTCAAGTACTTTT GAGGGTTTCCCCAGTCTCC 1794
P V S S S S S S T L L S L F O S S P E C T Q S T F E G F P Q S P 513

A1
C1 TCTCCAGATTCTCAGAGTC CTCCTGAAGGGGAGAATACC CATTCCTCTCCAGATTGT TCCAAGTCTTCCGAGTGGG AGGACTCCCTGTCTCCTCAC 1894
L Q I P Q S P P E G E N T H S P L Q I V P S L P E W E D S L S P H 546

A1
C1 TACTTTCCTCAGAGCCCTCC TCAGGGGGAGGACTCCCTAT CTTCTACIACIATTTCTCAG AGCCCTCCTCAGGGGAGGA CTCCTGTCTCCTCCTACT 1994
Y F P Q S P P Q G E D S L S P H Y F P Q S P P Q G E D S L S P H Y F 580

A1
C1 TTCTCAGAGCCCTCAGGGG GAGGACTCCCTGTCTCTCA CTACTTCTCAGAGCCCTC CTCAGGGGGAGGACTCCAIG TCTCCTCTCTACTTTCTCTCA 2094
P Q S P Q G E D S L S P H Y F P Q S P P Q G E D S M S P L Y F P Q 613

A1
C1 GAGTCCCTCAGGGGAGG AATCCAGTCTTCTCTCCAG AGCCCTGIGAGCATCTGCTC CTCCTCCACTCCATCCAGTC TTCCCAGAGTTTCCCTGAG 2194
S P L Q G E E F Q S S L Q S P V S I C S S S T P S S L P Q S F P E 646

A1
C1 AGTTCTCAGAGTCCCTCCTGA GGGCCCTGTCAGTCTCCTC TCATAGTCTCAGAGCCCT CCTGAGGGGATGCACTCCCA ATCTCCTCTCCAGAGTCTG 2294
S S Q S P P E G P V Q S P L H S P Q S P P E G M H S Q S P L Q S P E 680

A1
C1 AGAGTCTCCTGAGGGGAG GATTCCTGTCTCCTCTCCA AATTCCTCAGAGTCTCTTG AGGAGAGGACTCCCTGTCT TCTCTCCATTTCTCCTCAGAG 2394
S A P E G E D S L S P L Q I P Q S P L E G E D S L S S L H F P Q S 713

A1
C1 TCTCCTGAGTGGGAGGACT CCTCTCTCTCTCCACTTT CCTCAGTTTCTCCTCCTCAGG GGAGGACTTCCAGTCTCTC TCCAGAGTCTGTGAGTATC 2494
P P E W E D S L S P L H F P Q F P P Q G E D F Q S S L Q S P V S I 746

A1
C1 TGCTCCTCCTCCTACTTTT GAGTCTTCCCAGAGTTTCC CTGAGAGTCTCCTCAGAGTCTT CCTGAGGGGCTGCTCAGTC TCCTCTCCAGAGACCTGTCA 2594
C S S T S L S L P Q S F P E S P Q S P P E G P A Q S P L Q R P V S 780

A1
C1 GCTCCTTCTCTCCTACTT TTAGCGAGTCTTCTCCAAAG TTCCATGAGAGTCTCTCAGA GTCTCCTCAGGGGCTGCC CAGTCTCTCTCCTCAGAGTCC 2694
S F F S Y T L A S L L Q S S H E S P Q S P P E G P A Q S P L Q S P 813

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FIG. 2(E)

A1
 C1 TGTGAGCTCTTCCCTCCCTTCC CAGAGTTCTCTGTGAGCTC CTTCCTCTCTCCACTTCAT CGAGTCTTCCAGAGTTCC 2794
 [V_S_S_F_P_S_S_T_S_S_L_S_Q_S_S_P][V_S_S_F_P_S_S_T_S_S][S_L_S_K_S_S] 846

 A1
 C1 CCTGAGAGTCTCTCCAGAG TCCTGTGATCTCTTCTCCCTTCCCTTCCACTTCATTGAGCCCA TTCAGTGAAGAGTCCAGCAG CCCAGTAGATGAATATACAA 2894
 P E S P L Q S P [V_I_S_F_S_S_S_T_S_L_S_P_S][S E E S S S P V D E Y T S 880

 S E G S S S R E E E G P S 89

 AGTGAGGGTTCAGCAG CCGTGAAGAGGAGGGGCCAA 468

 T S C I L E S L F R A V I T K K V A 108

 A1 GCACCTCTGTATCTCTG... GAGTCTTGTCCGAGCA GTAATCACTAAGAAGGTGGC 523
 C1 GTTCTCAGACACCTTGGCTA GAGAGTGATCTCTTGACAGA CAGCGAGTCTTGTATGAGA GCGAGCCCTTGTCTACTTAT ACACCTGGATGAAAAGGTGGA 2994
 S S D T L L E S D S L T D S E S L I E S E P L F T Y T L D E K V D 913

 D L V G F L L L K Y R A R E P V T K A E M L E S V I K N Y K H C F 140
 A1 TGATTGGTTGGTTTCTGC TCCTCAATATCGAGCCAGG GAGCCAGTCAACAAGGCAGA AATGCTGGAGAGTGTCAICA AAAATTACAAGCACTGTTTT 623
 C1 CGAGTTGGCGGGTTTCTTC TCCTCAATATCAAGTGAAG CAGCCTATCAACAAGGCAGA GATGCTGACGAATGTCAICA GCAGGTACACGGGTACTTT 3094
 E L A R F L L L K Y Q V K Q P I T K A E M L T N V I S R Y T G Y F 946

 P E I F G K A S E S L Q L V F G I D V K E A D P T G H S Y V L V T C 174
 A1 CCTGAGATCTTCGCAAGC CTCTGAGTCTCTTGACGCTGG TCCTGGCAATGACGTGAAG GAAGCAGACCCACCGGCCA CTCCTATGTCCTTGTACCT 723
 C1 CCTGTGATCTTCAGGAAGC CCGTGAGTTCATAGAGATAC TTTTGGCATTTCCCTGAGA GAAGTGGACCT...GAIGA CTCCTATGTCCTTGTAAACA 3191
 P V I F R K A R E F I E I L F G I S L R E V D P . D D S Y V F V N T 979

 L G L S Y D G L L G D N Q I M P K T G F L I I V L V M I A M E G G 207
 A1 GCCTAGGTCTCTCTATGAT GGCCTGCTGGGTGATAATCA GATCATGCCCCAAGACAGGCT TCCTGATAATTGCTCTGGTC ATGATTGCAATGGAGGGCGG 823
 C1 CATTAGACCTCACCTCTGAG GGGTGTCTGAGTGTAGCA GGGCATGTCCACAGAACCGCC TCCTGATCTTATTCIGAGT ATCATCTTCATAAAGGGCAC 3291
 L D L T S E G C L S D E O G M S Q N R L L I L I L S I I F I K G T 1012

 H A P E E I W E E L S F H E V Y D G R E H S A Y G E P H K L L T 240
 A1 CCAATGCTCTGAGGAGGAAA TCTGGGAGGAGCTGAGTGTG ATGGAGGTGATGATGGGAG GGAGCAGATGCTTATGGGG AGCCAGGAGAGCTGCTCACC 923
 C1 CTATGCCCTCAGGAGGATCA TCTGGGATGTCTGAGTGGCA TAGGGGTGCTGCTGAGGAG GGAGCAGTTCCTTGGGG AGCCAGGAGGAGCTCCTCACT 3391
 Y A S E E V I W D V L S G I G V R A G R E H F A F G E P R E L L T 1045

FIG. 2(F)

O D L V Q E K Y L E Y R Q V P D S D P A R Y E F L W G P R A L A E T 274
 CAAGATTGGTGCAGGAAA GTACCTGGAGTACCGGAGG TGCCGGACAGTATCCCGCA CGCTATGAGTTCCTGTGGG TCCAAGGGCCCTCGCTGAAA 1023
 AAAGTTGGGTGCAGGAACA TTACCTAGAGTACCGGGAGG TGCCCAACICTTCTCTCT CGTACGAATTCCTGTGGG TCCAAGAGCTCATTGAGAAG 3491
 < V W V Q E H Y L E Y R E V P N S S P P R Y E F L W G P R A H S E V 1079

S Y V K V L E Y V I K V S A R V R F F P S L R E A A L R E E E 307
 "CAGCTATGIGAAAGTCTT GAGTATGTGATCAAGGTGAG TGCAAGAGTTCGCTTTTCT TCCATCCCTCGGTGAAGCA GCTTTGAGAGAGGAGGAAGA 1123
 TCATTAAGAGGAAAGTAGTA GAGTTTTGGCCATGCTAAA GAATACCGTCCCTATTACCT TTCCATCCTCTTACAAGGAT GCTTTGAAAGATGTGGAAGA 3591
 I K R K V V E F L A M L K N T V P I T F P S S Y K D A L K D V E E 1112

G V OPA 309
 3GGAGTCTGAGCATGAGTTG CAGCAAGGCCAGTGGGAGG GGGACTGGCCAGTGCACCT TCCAGGGCCCGTCCAGCAG CTTCCTCCCTCGTGTGAC 1223
 GAGGCCAGGCCATAATTG ACACCACAGATGATTCGACT GCCACAGAAAGTGAAGCTC CAGTGTGATGTCCCCAGCT TCTCTTCTGAGTGAAGTCTA 3691
 R A Q A I I D T T D D S T A T E S A S S V M S P S F S S E OPA 1142

...ATGAGGCCCATCTTCA CTCTGAAGAGAGCGGTGAGT GTTCTCAGTAGAG-.....GTTTC 1279
 GGGCAGATTCTCCCTCTGA GTTGAAGGGGGGAGTCGAG TTCTACGTGTGGAGGGCC TGGTTGAGGCTGGAGAGAAC ACAGTGTCTATTGCAATTTCT 3791

TGTTCTATTGGGTGACTTGG AGATTATCTTTGTTCTCTT TTGGAATTGTTCAAAAGTTT TT--TTTTAAGGGATGGTTG AATGAACITCAGCATCCAAG 1377
 GTTCCATATGGGTAGTATG GGGTTACCTGTTTACTTT TGGTATTTTCAAAAGCTT TTCCATTAATAACAGGTTT AAATAGCTTCAGAAATCCTAG 3891

TTTATGAATGACAGCAGT-C ACACAGTCTGTGTATATAG TTTAAGGGTAAGAGTCTTGT GTTTTATCAGATTGGGAAA TCCATTCTATTTTGTGAATT 1476
 TTTATGCACATGAGTCCGAC ATGTATTGCTGTTTTCTGG TTTAAGAGTAACAGTTTGTAT ATTTTGTAATAACAAAAACA CACCCAAACACACACCATTTG 3991

GGGATAATAACAGCAGTGGG ATAAGTACTTAGAATGTGA AAAATGAGCAGTAAATAGA TGAGATAAAGAACTAAAGAA ATTAAGAGATAGTCAATTTCT 1576
 GGAAACCTTCTGCCTCAT TGTGAIGTGCACAGGTTA ATGTGTTACTGTAGGAA TTTTCTTGAAACTGTGAAGG AACCTCTGCAGTTAAATAGTG 4091

TGCCTTATACCTCAGTCTAT TCTGTAAAATTTTAAAGAT ATATGCATACCTGGATTCC TTGGCTTCTTTGAGAAATGTA AGAGAAATTAATCTGAATA 1676
 GAATAAAGTAAAGGATTGT AATGTTGCAATTCCTCAGG TCCTTAGTCTGTTGTTCTT GAAAACTAAAGATACATACC TGGTTTGTCTGGCTTACGTA 4191

AAGAATTCTTCTGT-----
 AGAAAGTAGAAGAAAGTAAA CTGTAATAATAAA 1691
 4225

FIG. 3

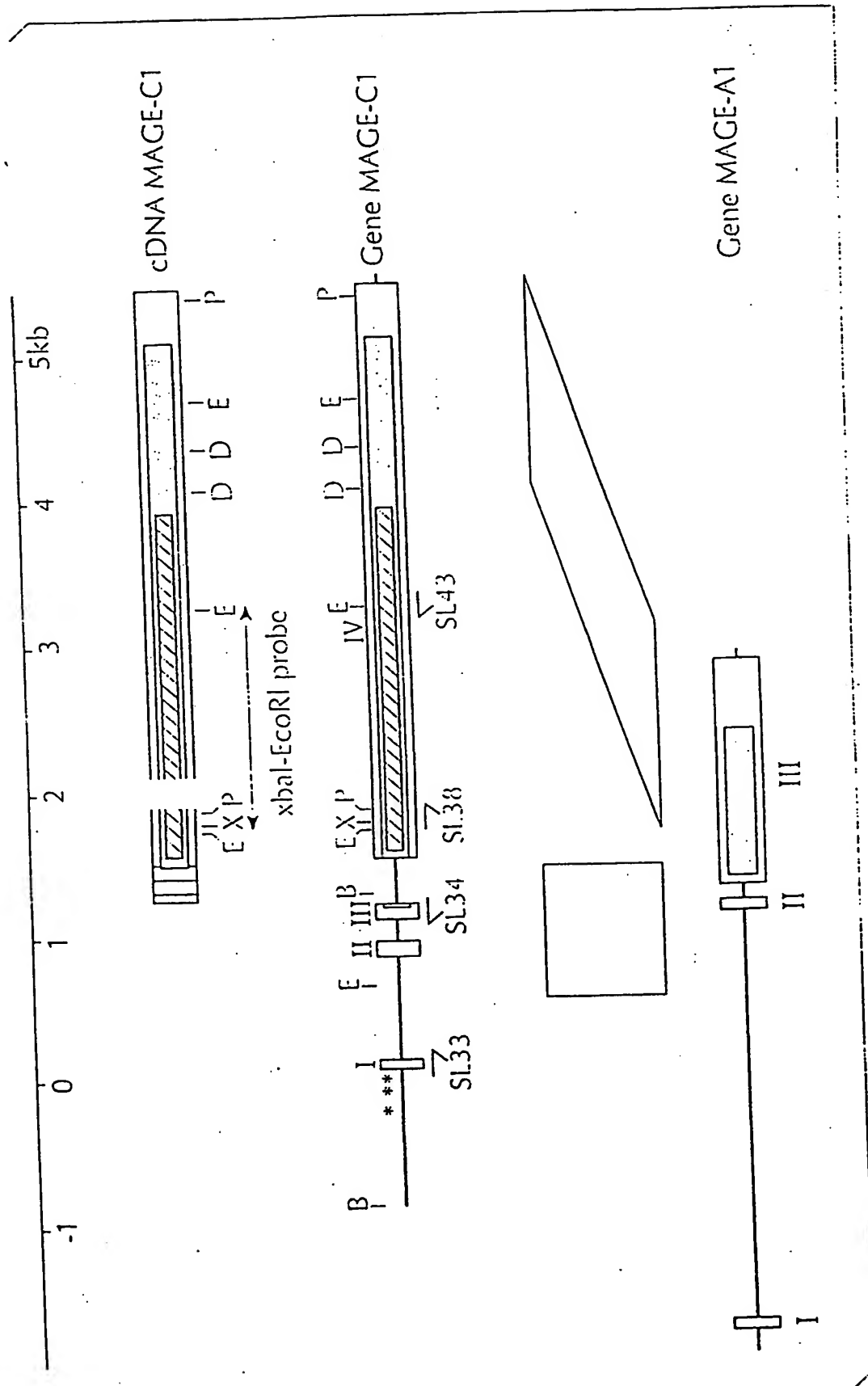
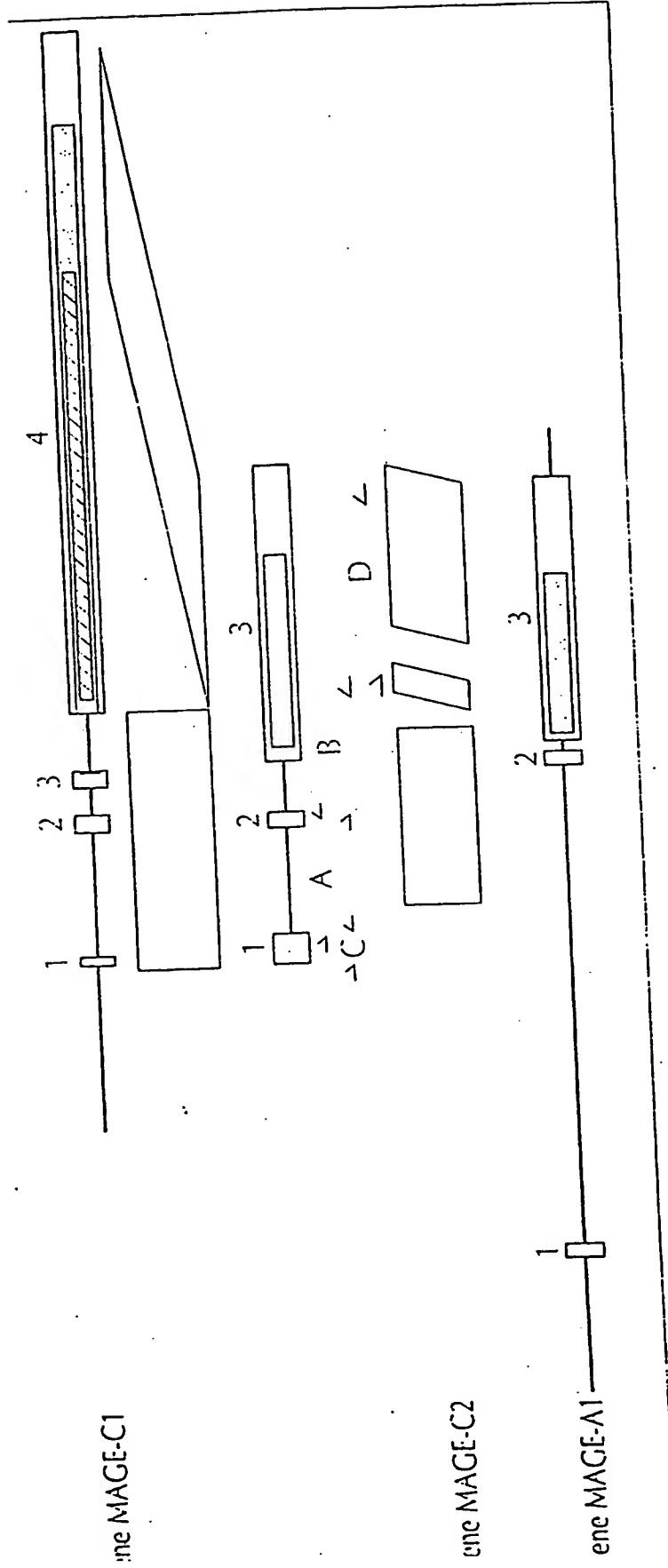


FIG. 4



10
15
20

5

30

ATGCCTCTCTTTCCAAACCTTCCACGCCTCAGCTTTGAGGAAGACTTCCA	50
GAACCCGAGTGTGACAGAGGACTTGGTAGATGCACAGGATTCCATAGATG	100
AGGAGGAGGAGGATGCCTCCTCCACTTCCTCTTCCTCTTTCCACTTTTTTA	150
TTCCCCCTCCTCCTCTTCCTTGTCCTCATCTCACCCTTGTCCTCACCCCTT	200
SL164	
ACCCTCTACTCTCATCTCTGGGTGTTCCAGAAGATGAGGATATGCCTGCTG	250
CTGGGATGCCACCTCTTCCCCAGAGTCCTCCTGAGATTCTCCCCAGGGT	300
CCTCCCAAGATCTCTCCCCAGGGTCCTCCGCAGAGTCCTCCCCAGAGTCC	350
TCTAGACTCCTGCTCATCCCCCTCTTTTGTGGACCCGATTGGATGAGGAGT	400
CCAGCAGTGAAGAGGAGGATACAGCTACTTGGCATGCCTTGCCAGAAAGT	450
GAATCCTTGCCAGGTATGCCCTGGATGAAAAGGTGGCTGAGTTGGTGCA	500
GTTTCTTCTCCTCAAATATCAAACAAAAGAGCCTGTCAAAAGGCAGAGA	550
TGCTGACGACTGTCTATCAAGAAGTATAAGGACTATTTTCCCATGATCTTC	600
GGGAAAGCCCATGAGTTCATAGAGCTAATTTTGGCATTGCCCTGACTGA	650
TATGGACCCCGACAACCACTCCTATTTCTTTGAAGACACATTAGACCTCA	700
CCTATGAGGGAAGCCTGATTGATGACCAGGGCATGCCCAAGAACTGTCTC	750
SL165	
CTGATTCTTATTCTCAGTATGATCTTCATAAAGGGCAGCTGTGTCCCCGA	800
GGAGGTCATCTGGGAAGTGTTGAGTGCAATAGGGGTGTGTGCTGGGAGGG	850
AGCACTTTATATATGGGGATCCCAGAAAGCTGCTCACTATACATTGGGTG	900
CAGAGAAAGTACCTGGAGTACCGGGAGGTGCCCAACAGTGCTCCTCCACG	950
TTATGAATTTTTGTGGGGTCCAAGAGCCCATTGAGAGCCAGCAAGAGAA	1000
GTCTTAGAGTTTTTATCCAAGCTATCCAGTATCATCCCTAG	1041

Figure 6 Amino-acid sequence of the putative MAGE-C3
protein (SEQ ID NO: 22)

	MPLFPNLPRLSFEEDFQNPSVTEDLVDAQDSIDEEEDASSTSSSSFHFL	50
5	FPSSSSLSSSSPLSSPLPSTLILGVPEDEDMPAAGMPPLPQSPPEIPPQG	100
	PPKISPQGPPQSPQSPLDSCSSPLLWTRLDEESSSEEDTATWHALPES	150
	ESLPRYALDEKVAELVQFLLLKYQTKEPVTKAEMLTTVIKKYKDYFPMIF	200
	GKAHEFIELIFGIALTDMDPDNHSYFFEDTLDLTYEGSLIDDQGMPKNCL	250
	LILILSMIFIKGSCVP EEVIWEVLSAIGVCAGREHFIYGDPRKLLTIHWV	300
10	QRKYLEYREVPNSAPPRYEFLWGPRAHSEASKRSLRVFIQAIQYHP	346

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Figure 7 Nucleotide sequence of gene MAGE-B5
(SEQ ID NO: 23)

This sequence is the antiparallel sequence corresponding to nucleotides 123358 to 124185 of BAC clone 466O4 (GenBank accession number AC005297). The sequence has been renumbered in this figure, taking the first nucleotide of the start codon as nucleotide number 1.

Primers SL189 and SL190 that were used in the RT-PCR assay are indicated.

10	ATGACTTCTGCAGGTGTTTTTAATGCAGGATCTGACGAAAGGGCTAACAG	50
	TAGAGATGAGGAGTACCCATGTTCTCAGAGGTCTCACCCTCCACTGAGA	100
	GTTTCATGCAGCAATTTTCATAAATATTAAGGTGGGTTTGTGGAGCAGTTC	150
	CTGCTCTACAAGTTCAAAATGAAACAGCGTATTTTGAAGGAAGATATGCT	200
	GAAGATTGTCAACCCAAGATACCAAACAGTTTGCTGAGATTACACAGAA	250
15	GAGCTTCTGAGCACATTGAGGTTGTCTTTGCAGTTGACTTGAAGGAAGTC	300
	AACCCAACCTTGTCACCTTATATGACCTTGTCAGCAAGCTGAAACTCCCCAA	350
	CAATGGGAGGATTTCATGTTGGCAAAGTGTTACCCAAGACTGGTCTCCTCA	400
	SL189	
	TGACTTTCCTGGTTGTGATCTTCCTGAAAGGCAACTGTGCCAACAAGGAA	450
20	GATACCTGGAAATTTCTGGATATGATGCAAATATATGATGGGAAGAAGTA	500
	CTACATCTATGGAGAGCCCAGGAAGCTCATCACTCAGGATTTTCGTGAGGC	550
	TAACGTACCTGGAGTACCACCAGGTGCCCTGCAGTTATCCTGCACACTAT	600
	CAATTCCTTTGGGGTCCAAGAGCCTATACTGAAACCAGCAAGATGAAAGT	650
	CCTGGAATATTTGGCCAAGGTCAATGATATTGCTCCAGGTGCCTTCTCAT	700
	SL190	
25	<u>CACA</u> ATATGAAGAGGCTTTGCAAGATGAGGAAGAGAGCCCAAGCCAGAGA	750
	TGCAGCCGAAACTGGCACTACTGCAGTGGCCAAGACTGTCTCAGGGCGAA	800
	GTTCAGCAGCTTCTCTCAACCCTATTGA	828

30

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Figure 8 Amino-acid sequence of the putative MAGE-B5
protein (SEQ ID NO: 24)

	MTSAGVFNAGS	DERANSRDEEY	PCSSEVSP	STESSCSN	FINIKVGLLEQF	50
5	LLYKF	KMKQRIL	KEDMLKIV	NPRYQNQ	FAEIHRRASEH	100
	NPTCH	LYDLVSK	LKLPNNG	RIHV	GKVLPKTG	150
	LLMT	FLVVI	FLKG	NCANKE		
	DTWK	FLDMMQ	IYDG	KKYYI	YGEPRKL	200
	ITQD	FVRL	TYLEY	HQVPC	SYP	250
	QFLW	GPRAY	TETSK	MKVLE	YLAKVND	275
	IA	PGAF	SSQY	EEALQ	DEEES	
	PSQR					
	CSR	NWHY	CSGQD	CLRA	KFSS	
	FSQPY					

10

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Figure 9 Nucleotide sequence of gene MAGE-B6
(SEQ ID NO: 25)

This sequence is the antiparallel sequence corresponding to nucleotides 146417 to 147640 of BAC clone 466O4 (GenBank accession number AC005297). The sequence has been renumbered in this figure, taking the first nucleotide of the start codon as nucleotide number 1.

Primers SL191 and SL192 that were used in the RT-PCR assay are indicated.

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10	ATGCCTCGGGGTCACAAGAGTAAGCTCCGTACCTGTGAGAAACGCCAAGA	50
	GACCAATGGTCAGCCACAGGGTCTCACGGGTCCCCAGGCCACTGCAGAGA	100
	AGCAGGAAGAGTCCCACTCTTCCTCATCCTCTTCTCGCGCTTGTCTGGGT	150
	SL191	
	GATTGTCGTAGGTCTTCTGATGCCTCCATTCTCAGGAGTCTCAGGGAGT	200
	GTCACCCACTGGGTCTCCTGATGCAGTTGTTTCATATTCAAATCCGATG	250
	TGGCTGCCAACGGCCAAGATGAGAAAAGTCCAAGCACCTCCCGTGATGCC	300
	TCCGTTCTCAGGAGTCTCAGGGAGCTTACCCACTGGCTCTCCTGATGC	350
	AGGTGTTTCAGGCTCAAATATGATGTGGCTGCCAACGGCCAAGATGAGA	400
	AAAGTCCAAGCACTTCCCATGATGTCTCCGTTCTCAGGAGTCTCAGGGA	450
	GCTTACCCACTGGCTCGCCTGATGCAGGTGTTTCAGGCTCAAATATGA	500
	TGTGGCTGCCGAGGGTGAAGATGAGGAAAGTGTAAGCGCCTCACAGAAAG	550
	SL192	
	CCATCATTTTTAAGCGCTTAAGCAAAGATGCTGTAAAGAAGAAGGCGTGC	600
	ACGTTGGCGCAATTCTGTCAGAAGAAGTTTGAGAAGAAAGAGTCCATTTT	650
25	GAAGGCAGACATGCTGAAGTGTGTCCGCAGAGAGTACAAGCCCTACTTCC	700
	CTCAGATCCTCAACAGAACCTCCCAACATTTGGTGGTGGCCTTTGGCGTT	750
	GAATTGAAAGAAATGGATTCCAGCGGCGAGTCTACACCCTTGTCAGCAA	800
	GCTAGGCCCTCCCCAGTGAAGGAATTCTGAGTGGTGATAATGCGCTGCCGA	850
	AGTCGGGTCTCCTGATGTCGCTCCTGGTTGTGATCTTCATGAACGGCAAC	900
30	TGTGCCACTGAAGAGGAGGTCTGGGAGTTCTGGGTCTGTTGGGGATATA	950
	TGATGGGATCCTGCATTCAATCTATGGGGATGCTCGGAAGATCATTACTG	1000
	AAGATTTGGTGCAAGATAAGTACGTGGTTTACCGGCAGGTGTGCAACAGT	1050
	GATCCTCCATGCTATGAGTTCCTGTGGGGTCCACGAGCCTATGCTGAAAC	1100
	CACCAAGATGAGAGTCCTGCGTGTTTTGGCCGACAGCAGTAACACCAGTC	1150
35	CCGGTTTATACCCACATCTGTATGAAGACGCTTTGATAGATGAGGTAGAG	1200
	AGAGCATTGAGACTGAGAGCTTAA	1224

Figure 10 Amino-acid sequence of the putative MAGE-B6 protein (SEQ ID NO: 26)

	MPRGHKSKLRTCEKRQETNGQPQGLTGPOATAEKQEESHSSSSSSSRACLG	50
5	DCRRSSDASIPQESQGVSPDAGVVSYSKSDVAANGQDEKSPSTSRDA	100
	SVPQESQGASPTGSPDAGVSGSKYDVAANGQDEKSPSTSHDVSVVPQESQG	150
	ASPTGSPDAGVSGSKYDVAAEGEDEESVSASQKAIIFKRLSKDAVKKKAC	200
	TLAQFLQKKFEKKESILKADMLKCVRREYKPYFPQILNRTSQHLVVAFGV	250
	ELKEMDSSGESYTLVSKLGLPSEGILSGDNALPKSGLLMSLLVVIFMNGN	300
10	CATEEEVWEFLGLLGIYDGILHSIYGDARKIITEDLVQDKYVVYRQVCNS	350
	DPPCYEFLWGPAYAETTKMRVLRVLADSSNTSPGLYPHLYEDALIDEVE	400
	RALRLRA	407

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